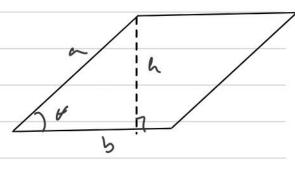
Date: /

$$\frac{E_{no1}}{\hat{e}_{n}} = (1_{10,0}) \hat{e}_{\gamma} = (0,1;0) \hat{e}_{\gamma} = (0;0;1)$$

c)
$$\overrightarrow{en} \overrightarrow{neg} = \begin{vmatrix} 1 & 1 & 0 \\ 0 & 1 \end{vmatrix} = \begin{vmatrix} 0 & 0 \\ 0 & 1 \end{vmatrix}$$

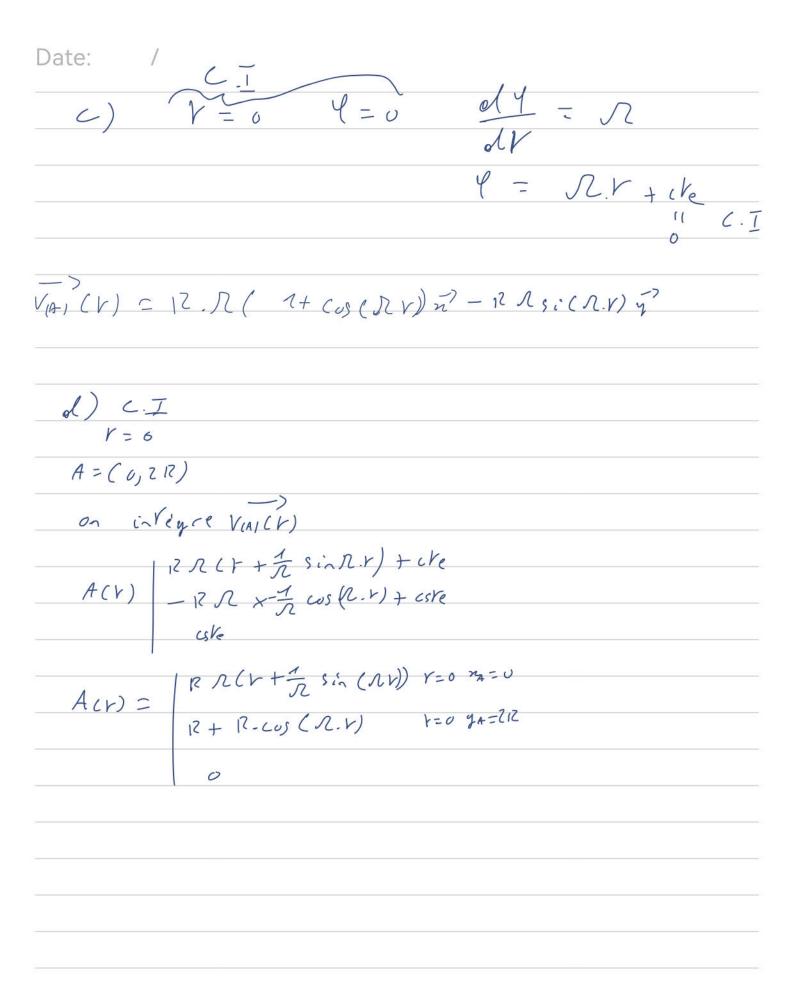
Eno 2: ~ (an; eqjez)



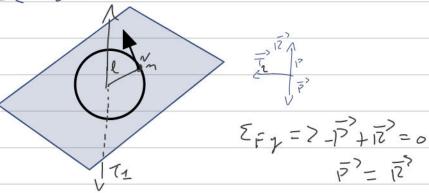
$$S_{be} = \frac{1}{1} \frac{1}{5} \frac{1}{1} \frac{1}{1} = \frac{1}{1} \frac{1}{5} \frac{1}{1} \frac$$

Sca =
$$\frac{\sqrt{3}}{2}$$
 evssi

b) colcule du volume Vanse Vate = [(016).c/= ·) V(0') = VLEST OF M point de contact Vie) = 6 pas de glissement -17 1 6. V(0-) = R \(\vec{q}\). \(\vec{x}\) = V(0-) + A = 1742 + = 17 P(1+ cos P) = 17.45in



Enercice 5:



a)
$$\frac{1}{\sqrt{1}} = 0 = \frac{2}{5} = \frac{2}$$

Date: /	